

SYSTEM AND METHOD FOR TESTING DEVICES UTILIZING CAPACITIVELY  
COUPLED SIGNALING

ABSTRACT OF THE DISCLOSURE

An apparatus and method for testing a semiconductor device in an AC test regime. The test apparatus includes a test plate capacitively couple to the signal terminals of the integrated circuit. The test plate is coupled to a test receiver circuit to receive and output the data signal detected at the test plate capacitively coupled to the signal terminals. Alternatively, the test plate is coupled to a test transmitter circuit to transmit data signals to signal terminals through the capacitively coupled test plate. A test unit can be coupled to the semiconductor device to evaluate the detected data signal against test criteria. Testing and evaluation is accomplished by capacitively coupling a test plate to a plurality of signal terminals. Data signals transmitted from a signal terminal and detected by the test plate or transmitted from the test plate and detected by the signal terminals are evaluated against a test criteria.